

HOT MIX DESIGN DATA WORK SHEET - RICES METHOD

North Dakota Department of Transportation, Materials and Research

SFN 7925 (Rev. 03-2002)

Project	Date
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a) Bulk specific gravity of aggregate.	
b) Asphalt content, %.	
c) Asphalt specific gravity.	

	Flask 1	Flask 2	AVERAGE
d) Sample, container, and solution.			
e) Container and solution.			
f) Sample in solution. d - e			
g) Sample in air.			
h) Volume of voidless mix. g - f			
i) Theoretical maximum specific gravity. $\frac{g}{h}$ **			
j) Effective specific gravity. $(100 - b) \div \left(\frac{100}{i_{AVG}} - \frac{b}{c} \right)$			
k) Asphalt absorption. $\frac{100 \times (j - a)}{j \times a} \times c$			

AASHTO T-209 Tested By:

**Flask 1 and 2 must be within the 0.011 tolerance for the average to be valid.